

CLAIMS

1 1. In a media gateway, a method of identifying a connection for a
2 call, the method comprising the steps of:
3 receiving a command from an associated media gateway con-
4 troller to establish the connection for the call;
5 determining a value for an end-to-end call identifier (EECID);
6 sending the EECID to the associated media gateway control-
7 ler;
8 establishing the connection for the call with the far end media
9 gateway so that the EECID is associated with the connection and the
10 call; and
11 notifying the associated media gateway controller that the
12 connection has been established.

1 2. The method of claim 1 wherein the value of the EECID is a ran-
2 domly generated number.

1 3. The method of claim 1 wherein the value of the EECID is the
2 same as that of a network call correlation identifier.

1 4. The method of claim 1 wherein the value of the EECID is the
2 same as that of a backward network connection identifier.

1 5. In a media gateway controller, a method of identifying a connec-
2 tion for a call, the method comprising the steps of:

3 receiving a notification to establish the connection;
4 negotiating connection parameters with a far-end media gate-
5 way controller;
6 determining a value for an end-to-end call identifier (EECID);
7 sending the EECID to an associated media gateway and to the
8 far-end media gateway controller so that the EECID is associated
9 with the connection and the call; and
10 receiving a notification from the associated media gateway that
11 the connection has been established.

1 6. The method of claim 5 wherein the notification to establish a
2 connection is an offhook notification.

1 7. The method of claim 5 wherein the notification to establish a
2 connection is a request to negotiate parameters, the request being received
3 from the far-end media gateway controller.

1 8. The method according to any of claims 5 through 7 wherein the
2 value of the EECID is a randomly generated number.

1 9. The method according to any of claims 5 through 7 wherein the
2 value of the EECID is the same as that of session-ID.

1 10. The method according to any of claims 5 through 7 wherein the
2 value of the EECID is the same as that of a backward network connection
3 identifier.

1 11. The method according to any of claims 5 through 7 wherein the
2 value of the EECID is the same as that of a call-ID.

1 12. A computer program product for enabling a media gateway to
2 identify a connection for a call, the computer program product including a
3 media with a computer program embodied therein, the computer program
4 comprising:

5 computer program code for receiving a command from an as-
6 sociated media gateway controller to establish the connection for the
7 call;

8 computer program code for determining a value for an end-to-
9 end call identifier (EECID);

10 computer program code for sending the EECID to the associ-
11 ated media gateway controller;

12 computer program code for establishing the connection for the
13 call with the far end media gateway so that the EECID is associated
14 with the connection and the call; and

15 computer program code for notifying the associated media
16 gateway controller that the connection has been established.

1 13. The computer program product of claim 12 wherein the value of
2 the EECID is a randomly generated number.

1 14. The computer program product of claim 12 wherein the value of
2 the EECID is the same as that of a network call correlation identifier.

1 15. The computer program product of claim 12 wherein the value of
2 the EECID is the same as that of a backward network connection identifier.

1 16. A computer program product for enabling a media gateway
2 controller to identify a connection for a call, the computer program product
3 including a media with a computer program embodied thereon, the computer
4 program comprising:

5 computer program code for receiving a notification to establish
6 the connection;

7 computer program code for negotiating connection parameters
8 with a far-end media gateway controller;

9 computer program code for determining a value for an end-to-
10 end call identifier (EECID);

11 computer program code for sending the EECID to an associ-
12 ated media gateway and to the far-end media gateway controller so
13 that the EECID is associated with the connection and the call; and

14 computer program code for receiving a notification from the
15 associated media gateway that the connection has been established.

1 17. The computer program product of claim 16 wherein the notifica-
2 tion to establish a connection is an offhook notification.

1 18. The computer program product of claim 16 wherein the notifica-
2 tion to establish a connection is a request to negotiate parameters, the
3 request being received from the far-end media gateway controller.

1 19. A switching system including a computing module and associ-
2 ated switching fabrics and network interfaces, the switching system operable
3 as a media gateway which is programmed to identify a connection for a call
4 by performing the steps of:

5 receiving a command from an associated media gateway con-
6 troller to establish the connection for the call;

7 determining a value for an end-to-end call identifier (EECID);

8 sending the EECID to the associated media gateway control-
9 ler;

10 establishing the connection for the call with the far end media
11 gateway so that the EECID is associated with the connection and the
12 call; and
13 notifying the associated media gateway controller that the
14 connection has been established.

1 20. The switching system of claim 19 wherein the value of the EECID
2 is a randomly generated number.

1 21. The switching system of claim 19 wherein the value of the EECID
2 is the same as that of a network call correlation identifier.

1 22. The switching system of claim 19 wherein the value of the EECID
2 is the same as that of a backward network connection identifier.

1 23. A computer system operable as a media gateway controller
2 which is programmed to identify a connection for a call by performing the
3 steps of:

4 receiving a notification to establish the connection;
 5 negotiating connection parameters with a far-end media gate-
 6 way controller;
 7 determining a value for an end-to-end call identifier (EECID);
 8 sending the EECID to an associated media gateway and to the
 9 far-end media gateway controller so that the EECID is associated
 10 with the connection and the call; and
 11 receiving a notification from the associated media gateway that
 12 the connection has been established.

1 24. The computer system of claim 23 wherein the notification to
 2 establish a connection is an offhook notification.

1 25. The computer system of claim 23 wherein the notification to
 2 establish a connection is a request to negotiate parameters, the request
 3 being received from the far-end media gateway controller.

1 ^{P.126} ²⁶
~~28.~~ Apparatus operable to identify a connection for a call in a packet
 2 network, the apparatus comprising:

3 means for receiving a command from an associated media
4 gateway controller to establish the connection for the call;

5 means for determining a value for an end-to-end call identifier
6 (EECID);

7 means for sending the EECID to the associated media gate-
8 way controller; and

9 means for establishing the connection for the call with the far
10 end media gateway so that the EECID is associated with the connec-
11 tion and the call.

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1 ~~29.~~ Apparatus which associates an end-to-end call identifier with a
2 connection for a call, the apparatus comprising:

3 means for receiving a notification to establish the connection;

4 means for computer program code for negotiating connection
5 parameters with a far-end media gateway controller;

6 means for determining a value for an end-to-end call identifier
7 (EECID); and

8 means for sending the EECID to an associated media gateway
9 and to the far-end media gateway controller so that the EECID is as-
10 sociated with the connection and the call.

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28.

1 ~~30.~~ In a multimedia packet network, a method of identifying a con-
 2 nection for a call comprising the steps of:
 3 at a media gateway controller, notifying an associated media
 4 gateway to establish the connection for the call;
 5 determining a value for an end-to-end call identifier (EECID) at
 6 the associated media gateway;
 7 sending the EECID from the associated media gateway to the
 8 media gateway controller so that the EECID is associated with the
 9 connection and the call at all media gateways and media gateway
 10 controllers involved in the call; and
 11 establishing the connection for the call at the associated media
 12 gateway and notifying the media gateway controller that the connec-
 13 tion has been established.

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1 ~~31.~~ In a multimedia packet network, a method of identifying a con-
 2 nection for a call comprising the steps of:
 3 receiving a notification at a media gateway controller to estab-
 4 lish a connection for a call;
 5 negotiating connection parameters at the media gateway con-
 6 troller;

7 selecting an end-to-end call identifier (EECID) at the media
8 gateway controller;
9 notifying an associated media gateway of the EECID as part of
10 a command issued to the associated media gateway by the media
11 gateway controller to establish the connection; and
12 establishing the connection for the call at the associated media
13 gateway.

1 ^{RI.126} ^{30.1} ~~32.~~ A multimedia packet network including at least one media gate-
2 way controller connected to an associated media gateway, the media gate-
3 way controller operable to control the associated media gateway, the media
4 gateway controller and the associated media gateway programmed to
5 enable the identification of a connection for a call by performing the steps of:
6 notifying the associated media gateway to establish the con-
7 nection for the call;
8 determining a value for an end-to-end call identifier (EECID) at
9 the associated media gateway;
10 sending the EECID from the associated media gateway to the
11 media gateway controller so that the EECID is associated with the
12 connection and the call at all media gateways and media gateway
13 controllers involved in the call; and

14 establishing the connection for the call at the associated media
15 gateway and notifying the media gateway controller that the connec-
16 tion has been established.

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1 ~~33.~~ A multimedia packet network including at least one media gate-
2 way controller connected to an associated media gateway, the media gate-
3 way controller operable to control the associated media gateway, the media
4 gateway controller and the associated media gateway programmed to
5 enable the identification of a connection for a call by performing the steps of:
6 receiving a notification at the media gateway controller to es-
7 tablish a connection for a call;
8 negotiating connection parameters at the media gateway con-
9 troller;
10 selecting an end-to-end call identifier (EECID) at the media
11 gateway controller;
12 notifying an associated media gateway of the EECID as part of
13 a command issued to the associated media gateway by the media
14 gateway controller to establish the connection; and
15 establishing the connection for the call at the associated media
16 gateway.